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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/589,540	08/16/2006	Henrik Ohman	06518/LH	8485
1933	7590	10/28/2008	EXAMINER	
FRISHAUF, HOLTZ, GOODMAN & CHICK, PC			NGUYEN, HOANG M	
220 Fifth Avenue			ART UNIT	PAPER NUMBER
16TH Floor				3748
NEW YORK, NY 10001-7708			MAIL DATE	DELIVERY MODE
			10/28/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

<b>Office Action Summary</b>	<b>Application No.</b> 10/589,540	<b>Applicant(s)</b> OHMAN, HENRIK
	<b>Examiner</b> Hoang M. Nguyen	<b>Art Unit</b> 3748

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If no period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).

Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

1) Responsive to communication(s) filed on \_\_\_\_\_.  
 2a) This action is FINAL.      2b) This action is non-final.  
 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

4) Claim(s) 1-8 is/are pending in the application.  
 4a) Of the above claim(s) \_\_\_\_ is/are withdrawn from consideration.  
 5) Claim(s) \_\_\_\_ is/are allowed.  
 6) Claim(s) 1-8 is/are rejected.  
 7) Claim(s) \_\_\_\_ is/are objected to.  
 8) Claim(s) \_\_\_\_ are subject to restriction and/or election requirement.

#### Application Papers

9) The specification is objected to by the Examiner.  
 10) The drawing(s) filed on \_\_\_\_ is/are: a) accepted or b) objected to by the Examiner.  
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  
 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

#### Priority under 35 U.S.C. § 119

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  
 a) All    b) Some \* c) None of:  
 1. Certified copies of the priority documents have been received.  
 2. Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.  
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

#### Attachment(s)

1) Notice of References Cited (PTO-892)  
 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  
 3) Information Disclosure Statement(s) (PTO/SB/08)  
 Paper No(s)/Mail Date 02/16/06

4) Interview Summary (PTO-413)  
 Paper No(s)/Mail Date \_\_\_\_\_.  
 5) Notice of Informal Patent Application  
 6) Other: \_\_\_\_\_

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 1-8 are rejected under 35 U.S.C. § 103(a) as being unpatentable over U.S. 6185956 (Brasz) in view of U.S. 3097490 (Callan et al). Brasz discloses a power cycle comprising an evaporator 15, a condenser 13, a pump (11), a helical screw expander (expessor 30) with a pair of helical rotors 32, 34, with many ports including inlet port, intermediate port, and outlet port. Brasz does not disclose the concept of connecting the intermediate port with a branch line from an inlet port, said branch line having a valve being responsive to a state parameter. Callan is relied upon to disclose it's well known in a power cycle to have a turbine 5, an inlet line 4 with heater 1, branch lines having a plurality of branch valves 3 to control the intake of the turbine, the first branch line and the last branch line are connected to the intermediate ports of the turbine 5, said branch valves 3 being responsive to different state parameters including load, speed, pressure, etc (columns 3 and 5). It would have been obvious at the time the invention was made to a person having ordinary skill in the art to provide branch lines in the expander of Brasz with valves as taught by Callan et al for the purpose of controlling the inlet working fluid in responsive to the specific conditions. Regarding claims 3, 5, it would have been obvious to select different conditions such as temperature or intake energy as claimed for the purpose of controlling the intake in response to those specific conditions.

Claims 1-8 are further rejected under 35 U.S.C. § 103(a) as being unpatentable over U.S. 6185956 (Brasz) in view of U.S. 3994137 (Yasumoto et al). Brasz discloses a power cycle comprising an evaporator 15, a condenser 13, a pump (11), a helical screw expander (expessor 30) with a pair of helical rotors 32, 34, with many ports including inlet port, intermediate port, and outlet port. Brasz does not disclose the concept of connecting the intermediate port with a branch line from an inlet port, said branch line having a valve being responsive to a state parameter. Yasumoto et al is relied upon to disclose it's well known in a power cycle to have a multistage turbine with three turbine stages 1, 2, 3, an inlet line 24 with heater 4, branch lines 26 having a plurality of branch valves 18, 19, to control the intake of the turbine, the branch line 26 is connected to the intermediate port of the intermediate turbine 22, said branch valves 18-19 being responsive to the load of the system. It would have been obvious at the time the invention was made to a person having ordinary skill in the art to provide branch lines in the expander of Brasz with valves as taught by Yasumoto et al for the purpose of controlling the inlet working fluid in responsive to the specific conditions. Regarding different conditions, it would have been obvious to select different conditions such as pressure, temperature or intake energy as claimed for the purpose of controlling the intake in response to those specific conditions.

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Dimitroff, Jr. et al discloses power system using branch intake ports.

Any inquiry concerning this communication or earlier communications from the Examiner should be directed to Examiner Nguyen whose telephone number is (571) 272-4861. The examiner can normally be reached on Tuesday--Friday from 12:30 AM to 10:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thomas E. Denion can be reached on 571-272-4859. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/Hoang M Nguyen/  
Primary Examiner, Art Unit 3748

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PRIMARY EXAMINER  
ART UNIT 3748

Hoang Minh Nguyen  
10/31/2008